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	Application No.	Applicant(s)
10	10/601,445	DESALET AL.
Notice of Allowability	Examiner	Art Unit
·	Dangelino N. Gortayo	2168
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in 5) or other appropriate commun RIGHTS. This application is su	this application. If not included nication will be mailed in due course. THIS
1. This communication is responsive to <u>11/19/2007</u> .		
2. The allowed claim(s) is/are 1-8 and 10-15 (renumbered	<u>1-14)</u> .	
 Acknowledgment is made of a claim for foreign priority a)	ive been received. ive been received in Application	n No
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g 		
 CORRECTED DRAWINGS (as "replacement sheets") m (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examined Paper No./Mail Date Identifying indicia such as the application number (see 37 CFF each sheet. Replacement sheet(s) should be labeled as such in 	erson's Patent Drawing Review er's Amendment / Comment or R 1.84(c)) should be written on th	in the Office action of e drawings in the front (not the back) of
6. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN		
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Attachment(s) 1. Notice of References Cited (PTO-892)	5. Notice of Inf	ormal Patent Application
 Notice of References Cited (PTO-992) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		immary (PTO-413),
3. Information Disclosure Statements (PTO/SB/08),	Paper No./N	Mail Date Amendment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposi of Biological Material		Statement of Reasons for Allowance
		TIM VO SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)

Notice of Allowability

Part of Paper No./Mail Date 20080125

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DETAILED ACTION

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

The prior art of record, Silberberg (US Patent 6,957,214 B2), Manikutty (US Patent 7,120,645 B2), Nasr (US Patent 6,882,995 B2), Fernandez (US Patent 6,785,673), Wynblatt (US Patent 6,961,728 B2), and Kiernan (US Patent 6,934,712 B2) teach analogous art to the instant application, that of translating queries from users that can be utilized by heterogeneous data sources. Silberberg more specifically teaches that the translation of queries for recognition by a data source is accomplished through a generic domain data model. However, after careful consideration of the Supplemental Brief (pages 6-9) filed 11/19/2007, the applicant extensively and specifically pointed out how the claim amendments overcome the prior art of record, particularly the generic domain data model of Silberberg mapping ever possible combination of data between the input queries and the target data source schema to provide a knowledge base. In comparison, the instant application teaches that the mapping between the input queries and the different target data sources is less complex than the prior art through the use of a common intermediate representation, which simplifies the process of query/view composition by not needing every possible mapping combination, the knowledge base of the prior art. Thus, in the instant application, the cost of executing a plurality of queries directed towards heterogeneous data sources is less than the prior art of record.

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This feature is indicated in independent claim 1, wherein the plurality of API calls share a common data model comprising operators of the graph structure of the XML intermediate data language representation, and wherein use of the M front-end languages and the N back-end compilers results in only M plus N system paths instead of M times N system paths.

This feature is also indicated in independent claim 10, wherein a plurality of execution engines wherein the plurality of target queries are executed over the plurality of data sources to produce the query results; and wherein use of the M front-end query_language to intermediate language compilers and the N back-end target generators results in only M plus N system paths instead of M times N system paths.

Consequently, independent claims 1 and 10 and dependent claims 2-8 and 11-15 as amended are allowable over prior art of record.

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dangelino N. Gortayo whose telephone number is (571)272-7204. The examiner can normally be reached on M-F 7:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim T. Vo can be reached on (571)272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dangelino N. Gortayo Examiner

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Tim T. Vo SPE

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